

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

To:

WOORIN PATENT FIRM

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# PCT

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing  
(day/month/year) 26 AUGUST 2004 (26.08.2004)

Applicant's or agent's file reference  
04FREF022PCT

FOR FURTHER ACTION

See paragraph 2 below

International application No.  
**PCT/KR2004/000608**

International filing date (day/month/year)  
**19 MARCH 2004 (19.03.2004)**

Priority date(day/month/year)  
15 DECEMBER 2003 (15.12.2003)

International Patent Classification (IPC) or both national classification and IPC

**IPC7 F25D 23/00**

Applicant

**LG ELECTRONICS INC. et al**

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

## 2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.  
For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR



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**WRITTEN OPINION OF THE  
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PCT/KR2004/000608

**Box No. 1 Basis of this opinion**

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  
  
☐ This opinion has been established on the basis of a translation from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. type of material  
☐ a sequence listing  
☐ table(s) related to the sequence listing
  - b. format of material  
☐ in written format  
☐ in computer readable form
  - c. time of filing/furnishing  
☐ contained in the international application as filed.  
☐ filed together with the international application in computer readable form.  
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE  
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PCT/KR2004/000608

**Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

**1. Statement**

Novelty (N)	Claims	1-10	YES
	Claims		NO
Inventive step (IS)	Claims	1-10	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-10	YES
	Claims		NO

**2. Citations and explanations :**

Reference is made to the following documents:

D1: KR 2002-57634 A (12 July 2002)  
D2: KR 2002-29506 A (19 April 2002)  
D3: KR 2001-113400 A (28 December 2001)  
D4: JP 2002-243354 A (28 August 2002)  
D5: JP 2001-324258 A (22 November 2001)

**1. Novelty and Inventive Step**

Claims 1-10 relate to the installation structure of a communication pad for a refrigerator, which is to tilt the communication pad supported by a holder to any positions a user wants. To achieve said purpose, a securing space is formed to install the communication pad on a front surface of a refrigerator door, and slots are formed in a left and right direction at upper and lower portions of said securing space. Said slots are connected to said communication pad by a link, one end of said link being connected in such a manner as to be capable of rotating along said slots, and the other end of said link being connected in such a manner as to be capable of rotating at the holder of the communication pad.

D1 to D3 relate to a refrigerator having a monitor, wherein a display panel of the monitor is maintained flat, parallel to the door surface at a usual time, but can be tilted by a driving means in an up and down direction at a predetermined angle, if necessary.

Claims 1-10 are similar to said documents D1-D3 in the feature of tilting the display panel when a user needs to do so; and claims 2, 7 and 8 are also similar to documents D4 and D5 in the feature of installing the display panel on the holder provided at a front surface of a refrigerator.

(Continued on Supplemental Sheet.)

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International application No.

PCT/KR2004/000608

**Supplemental Box**

In case the space in any of the preceding boxes is not sufficient.

Continuation of :

Box V.

However, claims 1-10 are different from said documents D1-D5 in that the present invention has a link for pulling out and pushing in the communication pad in a direction toward the front surface of the refrigerator door so as to tilt said communication pad in a left and right direction.

Therefore, the subject matter of claims 1-10 is considered to be novel and to involve an inventive step under PCT Article 33(2) and 33(3).

**2. Industrial Applicability**

Since claims 1-10 are directed to the installation structure of a communication pad for a refrigerator, the subject matter of said claims is considered to be industrially applicable under PCT Article 33(4).